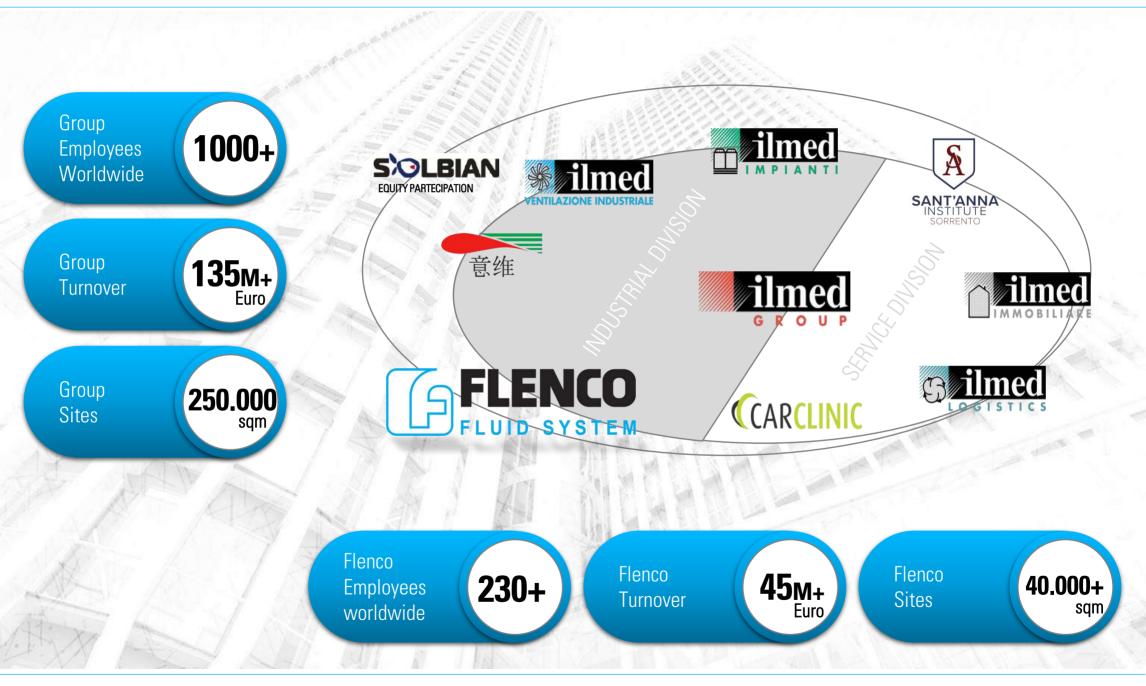


we find solutions

YOUR PARTNER IN OIL&GAS AND POWER GENERATION











The Company



More than 5200 systems, experience and quality since 1988

Flenco Fluid System is a privately owned **Italian Company** which supplies a wide range of **Products & Services** to the **Energy, Oil & Gas, Power Generation** and **Petrochemical** markets worldwide.

The core business is represented by the **Engineering, Procurement, Production and Testing** of Auxiliary Systems and Packages for Compressors, Gas and Steam Turbines, Pumps,

Generators and by the Process Skids for Balance of Plants (BOP).

The Company



- Headquarters in Avigliana (Turin), Italy
- Office in Calenzano (Florence) provides technical and commercial support
- Office in Rome primarily focuses on process engineering

- Premises in Trino Vercellese, Italy
- Premises in Ptuj, Slovenia
- Premises in Ningbo, China



Engineering



Flenco's Industrial and Process Engineers are experts in several international standards and are involved in proprietary codes, specifications for major Clients in the Oil & Gas and Power Generation Business.

The Engineering team has over 50 people based in Italy.

Industrial Engineering is carried out in Avigliana and Calenzano offices and Process Engineering is carried out in Rome.

Flenco Process Engineering

- PFD Process Flow Diagrams
- P&ID Piping and Instrumentation Diagrams
- Heat & Material Balance
- Process Equipment Design
- Field instrumentation and Control Room design
- Datasheets

Flenco Industrial Engineering

- Basic Engineering
- Mechanical Engineering
- Structural Analysis
- Mechanical Calculation
- Piping Stress Analysis
- 3D Modeling and Production Engineering
- Electrical, Instrumentation and Controls Engineering

Auxiliary Systems and Packages



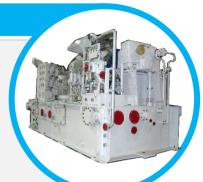




Lube oil, seal oil, hydraulic oil, control oil systems for turbines, compressors, pumps, gears, generators designed according to API 614/ISO10438 or any other standard. They may include overhead tanks.

INTEGRATED SYSTEMS

Integrated systems for lubrication, start up, gas and fuel treatment, including filtration, pumping, injection and controls.



FULL PACKAGING



Assembly of the complete compressor train on the base frames, including mechanical (piping around & structures), electrical, instrumental and controls. Flenco offers a complete testing capability, while the modular design reduces field installation and transportation costs.

COOLING WATER SYSTEMS



Cooling water systems or coolant skids, pump cooling water to the compressor cylinders, as the power input to the compressor is converted to heat in the compression process. Heat is removed by our cooling systems to prevent the gas and compressor parts from reaching excessively high temperatures.

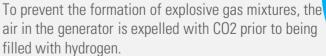
GAS SEAL PANELS



Gas seal panels, according to ISO 10438:2008 Part 4 and API 614 Fifth Edition Chapter 4, are designed to supply seal and buffer gas to the shaft seals. They include filters, controls, piping or tubing and the related instruments and cover a wide array of flows, pressures and material grades.

HYDROGEN COOLING SYSTEMS







Auxiliary Systems and Packages





WATER WASHING SYSTEMS

Turbine water wash systems can operate in both online (during turbine run) and offline (during turbine stop) mode. They deliver specified water and detergent flow to the nozzles, thus maintaining efficiency. They can be used onshore and offshore. Our standard systems are designed to be compact and mobile.





Flenco provides a wide range of air systems to produce and distribute compressed air to different utilities, control air for instrument and valves all-over the plant.

GAS DRYERS



A hydrogen gas dryer is a system to dry and/or remove water from hydrogen gas for use in hydrogen-cooled generators, preventing deterioration of the hydrogen's cooling properties. Depending on customers' needs, we are able to provide both desiccant dryers and refrigerated dryers.

WATER INJECTION SYSTEMS

For non-Dry Low Emissions (DLE) turbines without a NOx abatement system, a water injection system can be added to lower NOx emissions. This system injects demineralized water into the combustor through the fuel nozzles to regulate the combustor flame temperature and lower NOx emissions.



ACCUMULATOR SKIDS

Accumulator skids are designed to prevent low system pressure trips during transient events and to provide additional temporary flow when required.



STATOR WINDING COOLING SYSTEMS

Cooling system is designed to provide water free from oxygen to avoid corrosion in the system. The circuit is sealed from the atmosphere and under constant hydrogen overpressure. Water is circulated in a closed-circuit system through hollow conductors in the stator winding bars.



Process Packages for Balance of Plants (BOP)





GAS CONDITIONING SKIDS

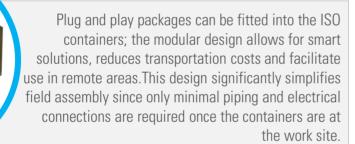
Gas conditioning skids treat natural gas and other combustible gases before injection into a critical process. It performs two functions: removing both moisture and any solid contaminants from the gas and regulating the gas temperature to the injection requirements.

CHEMICAL INJECTION & DOSING SYSTEMS

Chemical injection packages and dosing packages are specifically designed for dosing and injecting chemicals additives into a system at a required pressure, continuously or at intervals. Our dosing systems cover a wide range of possible applications in different areas of engineering.



CONTAINERIZED TURN-KEY SOLUTIONS



PIG LAUNCHERS AND RECEIVERS

Pig launchers and receivers perform maintenance operations (mainly cleaning and inspection) of the pipeline without stopping the flow of the product inside. Pigs or scrapers are pushed from the pig launcher along the pipe until it reaches the receiving trap. During this process, they remove deposits or separate fluids.



SKID MOUNTED PUMPING SYSTEMS

Skid mounted pumping systems are designed to deliver the fluids into the storage tank or mobile tanker, or pump it from a tank to a burner or into a flowline. The fluid characteristics and the specific application for the pump determine which pump technology is most suitable.

HOT WATER PACKAGES

The hot water package is designed and manufactured to heat the water contained in boilers through an electric heater. Water is then transferred to the utilities for different purposes. The package can be designed according to different international standards. In its application as hot water generator system, uses steam or boiler water as an energy source and can provide high recovery rates.





Process Packages for Balance of Plants (BOP)





FILTERING SKIDS

The skids treat natural gas and other combustible fluids before injection into a critical process, by removing any solid contaminants from the fluid.

GAS METERING - REGULATING SKIDS

Gas metering and pressure regulating skids are designed to measure gas or liquid flowrate.

The metering skids can be used to provide additional treatments including pressure-reduction and flow control.



PERFORMANCE HEATER SKIDS

Heating skids are designed to heat oil, fuels or gases. The heating process is performed by steam, hot water or electricity.



Gas separation package, with its vane pack or cyclone separators at high efficiency, making them suitable for installation upstream of the gas turbine or turbo-compressor.









SERVICES

Flenco provides field installation assistance, commissioning, testing, calibration, training, technical advisory, troubleshooting and repair services.

Our engineers team is on call 24/7.

SPARE PARTS



Flenco provides technical definition and sourcing of: capital parts, commissioning spare parts (supplied with main system), repairable and consumable parts.

REVAMPING AND RETROFIT

Upgrading of existing systems to improve performance, to save maintenance costs, to comply with new regulations and to keep the environmental impacts as low as possible.



Avigliana Offices (Italy)



Headquarters



Trino Workshop (Italy)



Premises



Flenco d.o.o. – Ptuj (Slovenia)



Premises



Flenco Ningbo Power Auxiliary Equipment & Systems Co., LTD - Ningbo (China) FLENCO



Premises













































































































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